

REASON

- **To use TWGSS to its full potential, you must properly prepare the tank for TWGSS training.**

TRAINING OBJECTIVE

- **Given an operational M1/M1A1 tank with BII, eye-safe laser filter installed, and a muzzle boresight device, you will perform the following tasks:**
 - **Conduct prepare-to-fire checks**
 - **Boresight tank**
 - **Update automatic and manual inputs**
 - **Prepare tank-specific equipment**

AUTOMATIC AND MANUAL INPUTS (M1)

- **Set crosswind to 0 and cancel out**
- **Ammunition temperature 69.8 F**
- **Air temperature 59 F**
- **Barometric pressure 29.92**
- **Gun tube wear 0.0.**

• AMMUNITION	SUBDES	AZ.	EL
· HEAT M456A2	0	0.0	-0.6 U
· SABOT M900	0	0.2 L	-0.4 U

AUTOMATIC AND MANUAL INPUTS (M1A1)

- **Set crosswind to 0 and cancel out**
- **Ammunition temperature 69.8 F**
- **Air temperature 59 F**
- **Barometric pressure 29.92**

• AMMUNITION	SUBDES	AZ	EL
· HEAT M830	0	-0.25 L	+0.37 D
· SABOT M829A1	5	0.0	-0.45 U

COAX CCP INPUTS

- **Set coax boresight values equal to main gun boresight values**
- **Set coax zero to $AZ = 0.0$ and $EL = 0.0$**

PREPARATION OF TANK-SPECIFIC EQUIPMENT

- **Position main gun over right No. 2 road wheel**
- **Secure elevation lock and engage turret traverse lock**
- **Vehicle master power switch and turret power switch OFF**
- **TNB utility power switch OFF**
- **Inspect and clean muzzle**
- **Inspect and clean GAS optical port**
- **Remove loader's hatch periscope**
- **Remove CEU protective guard**
- **Adjust load plan (if needed)**

SUMMARY

- **Pre/post firing checks**
- **Boresight FCS**
- **Update CCP**
- **Prepare tank-specific equipment**

CLOSING STATEMENT

- **To get the desired training result from TWGSS, you must first properly prepare the tank.**